



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010661
CERTIFICATION DATE: September 24, 2013
DATE RECERTIFICATION DUE: March 23, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

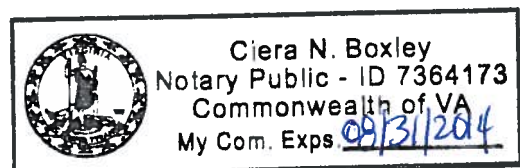
Melissa Kennedy
Program Manager, Calibration & Training

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 4th day of October, 2013 by Melissa Kennedy

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014
TLN



DBH
MSK

**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 9/26/2013**

Instrument Serial Number: 010661	As of 26-Sep-13
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Maintenance Date	Certification Date	Technician Initials	Remarks
24-Sep-13	24-Sep-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
24-Apr-13	24-Apr-13	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
16-Nov-12	16-Nov-12	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
21-Aug-12	21-Aug-12	DBH (21250)	CERTIFIED
03-Apr-09	03-Apr-09	DBH (21250)	CERTIFIED.
18-Mar-09	18-Mar-09	RJP (22428)	FIRMWARE/SOFTWARE UPGRADE. CERTIFIED.
12-Feb-09	12-Feb-09	MSK (21355)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBH
NXL

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010661 Worksheet Start Date 9/24/2013

Location Norfolk Naval Shipyard

Address Building 1618 Norfolk Naval Shipyard VA 23709

DFS Technician Donald Hall License No. 21250

☐ Laboratory ☒ On-Site

Site Specifications

Yes No

1 Secured Environment:

Location must not be accessible to the general public.

☒

☐

2 Environment free from contaminants

☒

☐

3 Dedicated telephone line:

The phone line should be used solely by the instrument.

☒

☐

4 Adequate Ventilation:

Enough space must be provided for the instrument and the printer to allow for adequate ventilation.

☒

☐

5 Stable temperature controls:

The instrument should not be exposed to direct sources of temperature variation.

☒

☐

6 115VAC power source:

Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.

☒

☐

7 Room Condition:

The site should be free of excessive moisture, heat and dust.

☒

☐

Old serial no. New serial no. Supplies

E-Seek Mouthpieces

Keyboard Certificates of Analysis

Printer Operator Worksheet

UPS Other:

25

Maintenance (if any)

Firmware/software upgrade.

Comments (if any)

Instrument Serial Number 010661

Certification Date 9/24/2013

Instrument Barometer (mm HG) 760

Reference Barometer (mm HG) 763

Reference Barometer(RB)Serial # 009110

RB Calibration Due 5/30/2014

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.248
0.250	0.250	0.242	0.257	Sample 2	0.249
Precision		sample min	sample max	Sample 3	0.248
0.001		0.248	0.249		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.150
0.150	0.150	0.145	0.154	Sample 2	0.150
Precision		sample min	sample max	Sample 3	0.150
0		0.150	0.150		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.080
0.080	0.080	0.077	0.083	Sample 2	0.081
Precision		sample min	sample max	Sample 3	0.080
0.001		0.080	0.081		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☒ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG217702-26

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.100
0.100	0.100	0.097	0.103	Sample 2	0.100
Precision		sample min	sample max	Sample 3	0.100
0		0.100	0.100		

DFS Technician

Donald B Hall

Date

9/26/13

Issuing Analyst

Melissa Kennedy

Date

10/2/13

Intox EC/IR II QA Worksheet

Issued by Calibration and Training Program Manager

Issue Date: 4-March-2013

TLN

DFS Document 250-F113

Revision 6

Page 2 of 2



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY HALL, DONALD, B		AGENCY DFS Central Lab
DFS LICENSE NUMBER 21250	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 09/24/2013
TEST EQUIPMENT NUMBER 010661		

RESULTS: TIME SAMPLE TAKEN 14:43 EDT

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 25 Sep 2013 at 08:42

DBH
NBL

Test Results

Instrument Serial Number 010661

Test # 000139 Subject Test

Test Location 1 Department of
Test Date 24 Sep 2013

Test Location 2 Forensic Science
Test Time 14:35
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name HALL
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B

Card Serial Number 121250

License Number 21250

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 24 Sep 2013 End Time 14:44

Result Time 14:43

Result Date 24 Sep 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 14:36

Data Type BLK

Sample Value 0.000

Sample Time 14:36

Data Type CHK

Sample Value 0.101

Sample Time 14:37

Data Type BLK

Sample Value 0.000

Sample Time 14:38

Data Type SUBJ

Sample Value 0.000

Sample Time 14:39

Data Type BLK

Sample Value 0.000

Sample Time 14:40

Data Type SUBJ

Sample Value 0.000

Sample Time 14:43

Data Type BLK

Sample Value 0.000

Sample Time 14:44

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG129004-17

Standard Expiration Date 10/17/2013

Tank Pressure 174

Barometric Pressure 760 mmHg

Blow Sample Number 1 Blow Duration 3.14 sec

Blow Volume 1777 cc End-of-Blow Time 14:39

Blow Sample Number 2 Blow Duration 2.62 sec

Blow Volume 1432 cc End-of-Blow Time 14:42

Blow Sample Number 3 Blow Duration 3.93 sec

Blow Volume 2076 cc End-of-Blow Time 14:43

Tamper Evident Stamp 9276e517

Test Status Code 0

Test Status Success

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010661 Test Number: 140

Test Date: 09/24/2013 Test Time: 14:45 EDT

Dry Gas Target: 0.100

Lot Number: AG129004-17 Exp Date: 10/17/2013

Tank Pressure: 169 psi Barometric Pressure: 760 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:46
CHK	0.101	14:47
BLK	0.000	14:48
CHK	0.101	14:49
BLK	0.000	14:51
CHK	0.101	14:51

Test Status: *Success*

Calibration CRC: 3F55591B

DBH

WHL

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010661 Test Number: 141

Test Date: 09/24/2013 Test Time: 14:56 EDT

Dry Gas Target: 0.300

Lot Number: AG322702-04 Exp Date: 08/15/2015

Tank Pressure: 311 psi Barometric Pressure: 760 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:57
CHK	0.304	14:57
BLK	0.000	14:59
CHK	0.303	15:00
BLK	0.000	15:02
CHK	0.303	15:03

Test Status: *Success*

Calibration CRC: 3F55591B

Intox EC/IR-II: Software Version

Department of Forensic Science

Serial Number: 010661

System Date: 09/24/2013

System Time: 15:25 EDT

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

DBH

WJ

Intox EC/IR-II: Calibration

Department of Forensic Science

Serial Number: 010661 Test Number: 142

Test Date: 09/24/2013 Test Time: 15:28 EDT

Dry Gas Target: 0.100

Lot Number: 0651210013-05 Exp Date: 04/01/2014

Tank Pressure: 409 psi Barometric Pressure: 760 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	15:28
CAL	0.100	15:29

Test Status: *Success*

Calibration CRC: FF9AA030

DBH

WHL

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010661 Test Number: 143
Test Date: 09/24/2013 Test Time: 15:32 EDT

Technician Initials: DBH

Dry Gas Target: 0.250

Lot Number: 2961225012-10 Exp Date: 11/01/2014

Tank Pressure: 242 psi Barometric Pressure: 760 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:33
BLK	0.000	15:33
CHK	0.248	15:34
BLK	0.000	15:36
CHK	0.249	15:37
BLK	0.000	15:38
CHK	0.248	15:39
BLK	0.000	15:41

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010661 Test Number: 144
Test Date: 09/24/2013 Test Time: 15:44 EDT

Technician Initials: DBH

Dry Gas Target: 0.150

Lot Number: 2951215012-03 Exp Date: 11/01/2014

Tank Pressure: 987 psi Barometric Pressure: 760 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:45
BLK	0.000	15:45
CHK	0.150	15:46
BLK	0.000	15:48
CHK	0.150	15:49
BLK	0.000	15:50
CHK	0.150	15:51
BLK	0.000	15:53

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

DBH

pass

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010661 Test Number: 145
Test Date: 09/24/2013 Test Time: 15:56 EDT

Technician Initials: DBH

Dry Gas Target: 0.080

Lot Number: 0651208012-03 Exp Date: 04/01/2014

Tank Pressure: 208 psi Barometric Pressure: 760 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:56
BLK	0.000	15:57
CHK	0.080	15:58
BLK	0.000	15:59
CHK	0.081	16:00
BLK	0.000	16:01
CHK	0.080	16:02
BLK	0.000	16:03

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010661 Test Number: 146
Test Date: 09/24/2013 Test Time: 16:05 EDT

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0651202011-05 Exp Date: 04/01/2014

Tank Pressure: 115 psi Barometric Pressure: 760 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	16:06
BLK	0.000	16:07
CHK	0.019	16:07
BLK	0.000	16:09
CHK	0.019	16:09
BLK	0.000	16:11
CHK	0.019	16:11
BLK	0.000	16:13

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010661 Test Number: 147

Test Date: 09/24/2013 Test Time: 16:16 EDT

Dry Gas Target: 0.300

Lot Number: AG322702-04 Exp Date: 08/15/2015

Tank Pressure: 301 psi Barometric Pressure: 759 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	16:17
CHK	0.303	16:17
BLK	0.000	16:19
CHK	0.303	16:20
BLK	0.000	16:23
CHK	0.303	16:23

Test Status: *Success*

Calibration CRC: FF9AA030

DBT

WLL

Intox EC/IR-II: Accuracy Check

DBT

None

Department of Forensic Science

Serial Number: 010661 Test Number: 148

Test Date: 09/24/2013 Test Time: 16:27 EDT

Dry Gas Target: 0.100

Lot Number: AG217702-26 Exp Date: 06/25/2014

Tank Pressure: 296 psi Barometric Pressure: 760 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	16:28
CHK	0.100	16:29
BLK	0.000	16:31
CHK	0.100	16:31
BLK	0.000	16:33
CHK	0.100	16:34

Test Status: *Success*

Calibration CRC: FF9AA030



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
---	-----------------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY HALL, DONALD, B		AGENCY DFS Central Lab
DFS LICENSE NUMBER 21250	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 09/24/2013
TEST EQUIPMENT NUMBER 010661		

RESULTS: TIME SAMPLE TAKEN 16:43 EDT
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 25 Sep 2013 at 08:42

DBH
WJK

Test Results

Instrument Serial Number 010661

Test # 000149 Subject Test

Test Location 1 Department of
Test Date 24 Sep 2013

Test Location 2 Forensic Science
Test Time 16:36
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name HALL
Agency DFS Central Lab
Card Serial Number 121250
Subject's Last Name INSTRUMENT
Subject's Middle Initial
Driver's License Number

Operator's First Name DONALD
License Number 21250
Effective Date 10/01/2012
Expiration Date 10/01/2014
Subject's First Name TEST
Subject's Date of Birth 00/00/0000
Subject's Sex Male

Driver's License Expiration 00/00/0000

Court Name DFS

End Date 24 Sep 2013 End Time 16:44

Result Time 16:43

Result Date 24 Sep 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 16:37

Data Type BLK

Sample Value 0.000

Sample Time 16:38

Data Type CHK

Sample Value 0.100

Sample Time 16:38

Data Type BLK

Sample Value 0.000

Sample Time 16:40

Data Type SUBJ

Sample Value 0.000

Sample Time 16:41

Data Type BLK

Sample Value 0.000

Sample Time 16:42

Data Type SUBJ

Sample Value 0.000

Sample Time 16:43

Data Type BLK

Sample Value 0.000

Sample Time 16:44

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG217702-26

Standard Expiration Date 06/25/2014

Tank Pressure 291

Barometric Pressure 759 mmHg

Blow Sample Number 1 Blow Duration 3.55 sec

Blow Volume 1849 cc End-of-Blow Time 16:41

Blow Sample Number 2 Blow Duration 4.12 sec

Blow Volume 2073 cc End-of-Blow Time 16:43

Tamper Evident Stamp 1c7e89fd

Test Status Code 0

Test Status Success